AUTODOC CLUB

How to change fuel filter on **BMW E39** – replacement guide

VIDEO TUTORIAL



Important!

This replacement procedure can be used for:
BMW 3 Saloon (E36) 316i 1.6, BMW 3 Saloon (E36) 318i 1.8, BMW 3 Saloon (E36) 318is 1.8, BMW 3 Coupe (E36) 318is 1.8, BMW 3 Saloon (E36) 320i 2.0, BMW 3 Coupe (E36) 320i 2.0, BMW 5 Saloon (E34) 530i 3.0 V8, BMW 5 Saloon (E34) 540i 4.0 V8, BMW 5 Touring (E34) 530i 3.0 V8, BMW 3 Convertible (E36) 320i 2.0, BMW 3 Coupe (E36) 316i 1.6, BMW 5 Touring (E34) 540i 4.0, BMW 3 Convertible (E36) 318i 1.8, BMW 3 Compact (E36) 316i 1.6, BMW 7 (E38) 730i / iL 3.0, (+ 71)

The steps may slightly vary depending on the car design.

REPLACEMENT: FUEL FILTER – BMW E39. TOOLS YOU MIGHT NEED:



- Wire brush
- All-purpose cleaning spray
- Fluid container
- Drive socket # 5.5
- Drive socket # 8
- Drive socket # 10
- HEX bit No.H5.
- Ratchet wrench
- Clip removal tool
- Fender cover

BUY TOOLS

Replacement: fuel filter – BMW E39. Tip from AUTODOC experts:

- Ensure adequate ventilation of the workplace. Fuel vapors are poisonous.
- Please note: all work on the car – BMW E39 – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Open the fuel door.

2 Unscrew the fuel filler cap.

3 Open the bonnet.



4 Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.



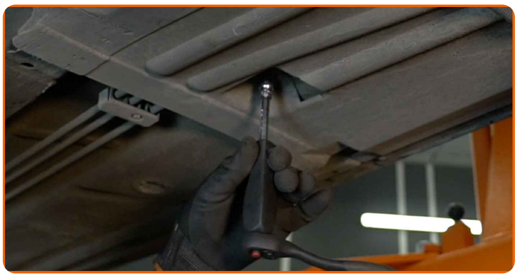
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Lift the car using a jack or place it over an inspection pit.



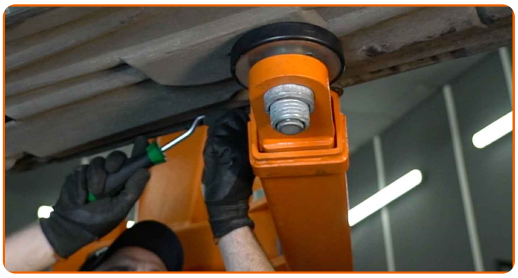
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Unscrew the fasteners of the underbody cover panel. Use a drive socket #10. Use a drive socket #8. Use a ratchet wrench.



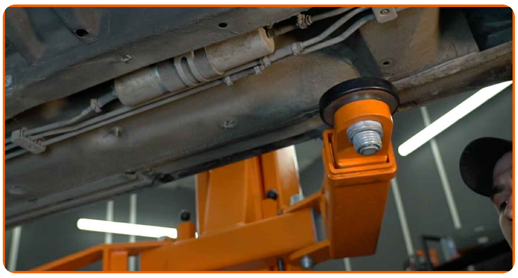
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Remove the clips of the underbody cover panel. Use a clip removal tool.



8

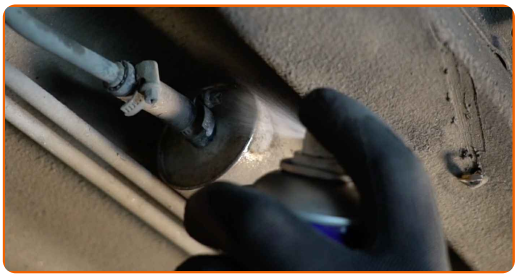
Remove the underbody cover panel.



Replacement: fuel filter – BMW E39. Tip:

- Do not apply excessive force when removing the part. Otherwise you may damage it.

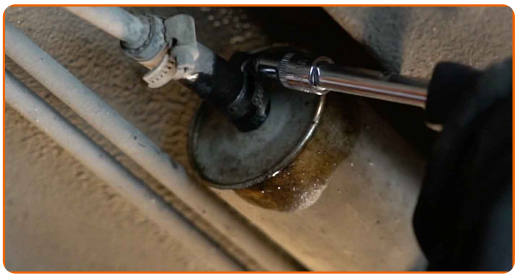
9 Clean the fasteners of the fuel supply lines. Use a nylon cleaning brush. Use all-purpose cleaning spray.



10 Prepare a container for fluids.



11 Unscrew the fastener attaching the fuel supply line to the fuel filter housing. Use a drive socket #5.5. Use a ratchet wrench.



12 Disconnect the fuel supply lines from the fuel filter.



13

Clean the fuel filter mounting bracket. Use WD-40 spray.



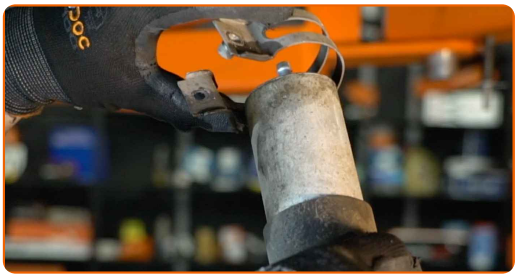
14

Loosen the fuel filter mounting. Use HEX No.H5. Use a ratchet wrench.



15

Remove the fuel filter.



16

Install a new fuel filter.



Replacement: fuel filter – BMW E39. Tip from AUTODOC:

- Remember, it is important not to mix up the input and output of the filter. Arrows on the filter indicate the direction of fuel flow.
- During installation, take care to prevent dust and dirt from getting into the fuel filter housing.
- BMW E39 – It's important to only use high-quality filters.

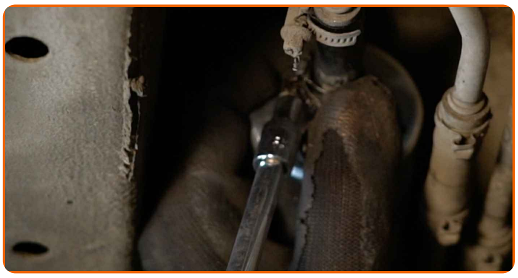
17 Connect the fuel supply lines to the fuel filter.



18 Screw in the fuel filter mounting bracket. Use HEX No.H5. Use a ratchet wrench.



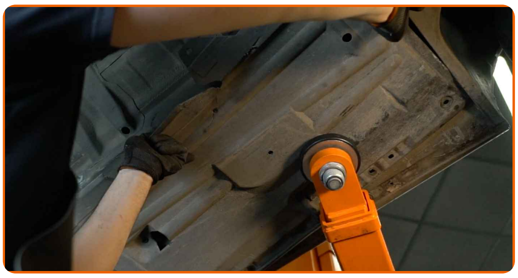
19 Screw the fastener attaching the fuel supply line to the fuel filter housing. Use a drive socket #5.5. Use a ratchet wrench.



20 Take the fluid container away from under the fuel filter.



21 Put the underbody cover panel back in place.



22 Screw in the fasteners of the underbody cover panel. Use a drive socket #8. Use a drive socket #10. Use a ratchet wrench.



23 Install the clips of the underbody cover panel.



24 Lower the car.



Replacement: fuel filter – BMW E39. Professionals recommend:

- Before starting off, switch the ignition on and off several times. This should be done to activate the fuel pump to make it pump fuel through the fuel system.

25 Tighten the fuel filler cap.

26 Close the fuel door.

27 Run the engine for a few minutes. This is necessary in order to make sure that the component operates properly.



28 Shut off the engine.



29 Remove the fender protection cover.

30 Close the hood.

Replacement: fuel filter – BMW E39. AUTODOC recommends:

- To protect the environment from pollution, be sure to dispose of the used filters at special collection points.

WELL DONE!

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